

2012 Drinking Water Quality Data

The water quality data presented below has been compiled from the results of laboratory testing. Water samples were taken from the Buffalo Pound Water Treatment Plant. Comprehensive water quality analyses for all parameters were conducted in the plant laboratory.

Parameter	Testing Result Annual Average	Saskatchewan Environment Water Quality Objective
Sodium (Na)	72	300
Sulphate (SO ₄)	231	500
Total Dissolved Solids (TDS)	469	1500
Manganese (Mn)	<0.0005 DL	0.05
Nitrate (NO ₃)	0.87	45
Potassium (K)	7.10	No Standard
Hardness	211	800
Iron (Fe)	<0.001 DL	0.30
Magnesium (Mg)	25	200
Calcium (Ca)	44	No Standard
Chloride (Cl)	25.6	250
Fluoride (F)	0.10	1.50
Alkalinity (CaCO ₃)	114	500

Notes:

1. Values are given in milligrams per litre (mg/l) which is equivalent to parts per million (ppm)
2. No flouride was added to Regina water. Flouride measured is naturally occurring.
3. < means "less than"
4. DL means detection limit

2012 Drinking Water Quality and Compliance Report

Saskatchewan Ministry of Environment requires that at least once each year, waterworks owners provide notification to consumers of the quality of water produced and supplied. The Ministry also requires waterworks owners to provide performance information by submitting samples as required by the Minister's Order or permit to operate a waterworks.

Water quality test results for bacteriological, chlorine residual and turbidity were given in the 2012 Drinking Water Quality and Compliance Report. The following is a summary of the City of Regina's water quality and sample submission compliance records for 2012. This report was completed on January 23, 2013.

Bacteriological Quality

Parameter	Limit	Regular Samples Required	Total Samples Tested	No. of Samples Positive of Bacteria
Total Coliform and Background Bacteria	Zero Organisms/ 100ml Less than 200/100ml	795	804	0

Water Disinfection

Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (mg/l)	Test Level Range (mg/l)	No. of Tests Required	No. of Tests Performed
Chlorine Residual	0.1 mg/L Free 0.5 mg/l Total	0.02 - 1.10 0.04 - 1.64	795	898

Turbidity

Parameter	Limit (NTU)	Test Level Range	No. of Tests Not Meeting Requirements	No. of Tests Required	No. of Tests Performed
Turbidity	1.0	0.02 - 2.29	3	795	898

(NTU) Nephelometric Turbidity Unit - a unit of measurement used to indicate the clarity of drinking water.

IV. Chemical - Trihalomethanes

Parameter	Limit (mg/l)	Sample Result (Average)	No. of Samples Required	No. of Samples Submitted
Trihalomethanes	0.1	0.07 mg/l	8	8

Please refer to Saskatchewan Ministry of Environment's Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202 for more information on minimum sample submission requirements and the meaning of each type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines.

For more information on the nature and significance of specific water tests, please refer to Health Canada.